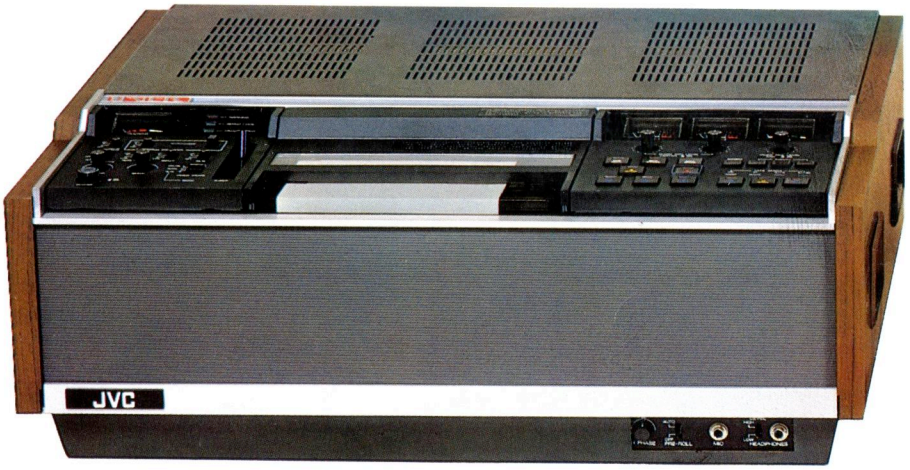
JVC

The NEW BREED of PROFESSIONAL VIDEO

CR-8500LU/RM-85U

The JVC CR-8500LU/RM-85U

3/4" VCR Tape Recorder/Editor System— for highest performance, greatest accuracy.



CR-8500LU

Advanced Design

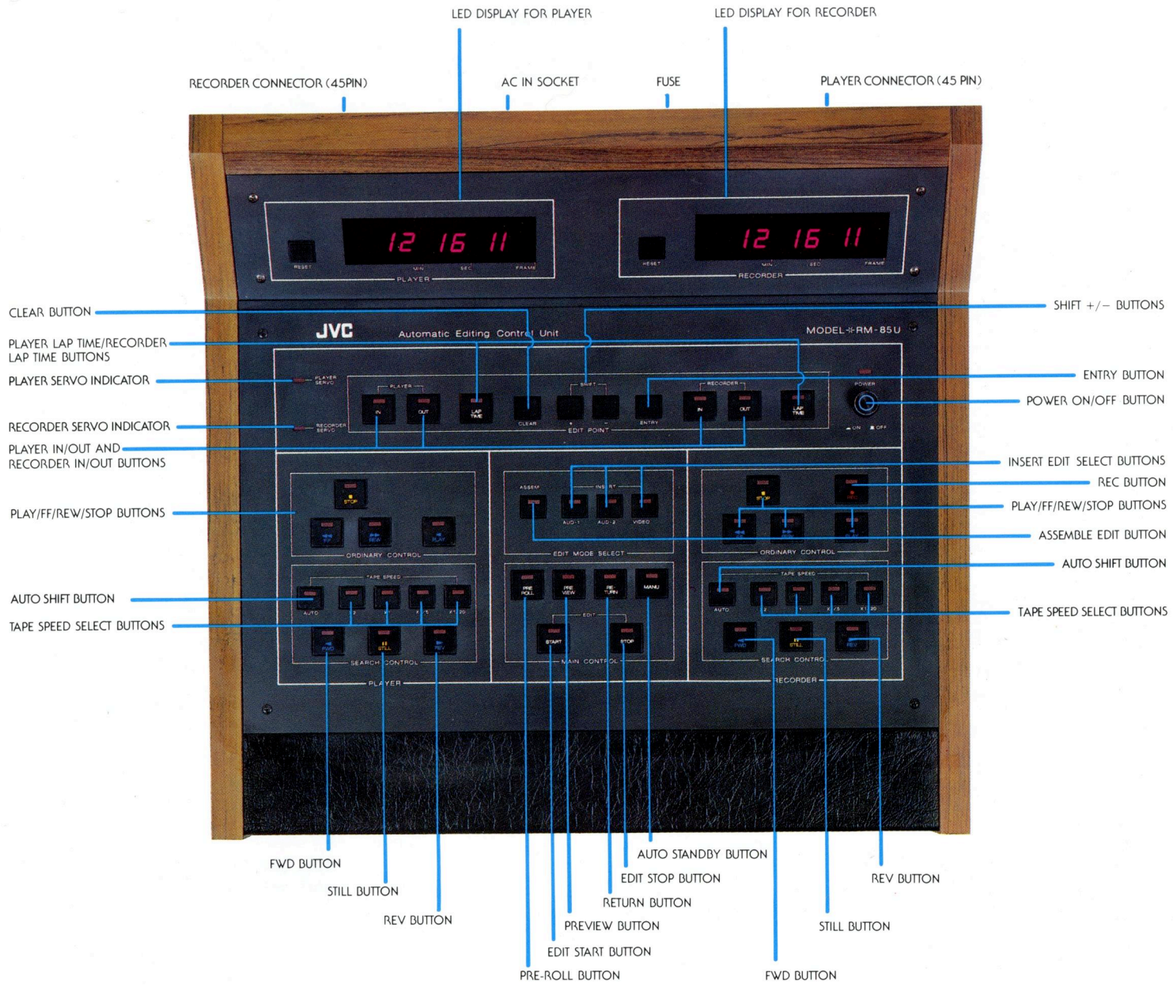
Highly stable tape transport and minimal "jitter," are assured by a capstan servo lock and DC-motor-driven head drum. The capstan servo, together with rotary erase heads and blanking switcher frame servo, provides for the most accurate editing—both insert and assemble—eliminating distortion at edit points. To minimize timing error at edit points, horizontal sync phase compensation adjustment is also included. A drop-out compensator is built in, but can be defeated for an external DOC or time base corrector. In addition to the basics, there's JVC's patented color dubbing circuitry, for optimal color quality with multi-generation dupes.

Full Electronic Editing

The CR-8500LU brings unsurpassed speed and precision to 3/4" video editing. With a single CR-8500LU, insert, assemble and pre-roll editing all can be carried out automatically. You can find your edit point quickly and accurately, with the smooth control provided by solenoid-controlling mode buttons. And variable speed auto-search in both forward and reverse directions lets you edit at the pace that's best. Fast search at approximately 10 times. Double-speed search (2 times). Or at real time (1 time, 1/5 time, or 1/20 time). An auto-speed shift can be used to reduce tape speed automatically before you reach your edit point. Where you stop—on a single frame. A full-logic tape transport permits rapid intermode switching, without the need to press the stop button. And without any tape damage. In short—the CR-8500LU delivers the quickest, simplest, most accurate frame-to-frame editing.

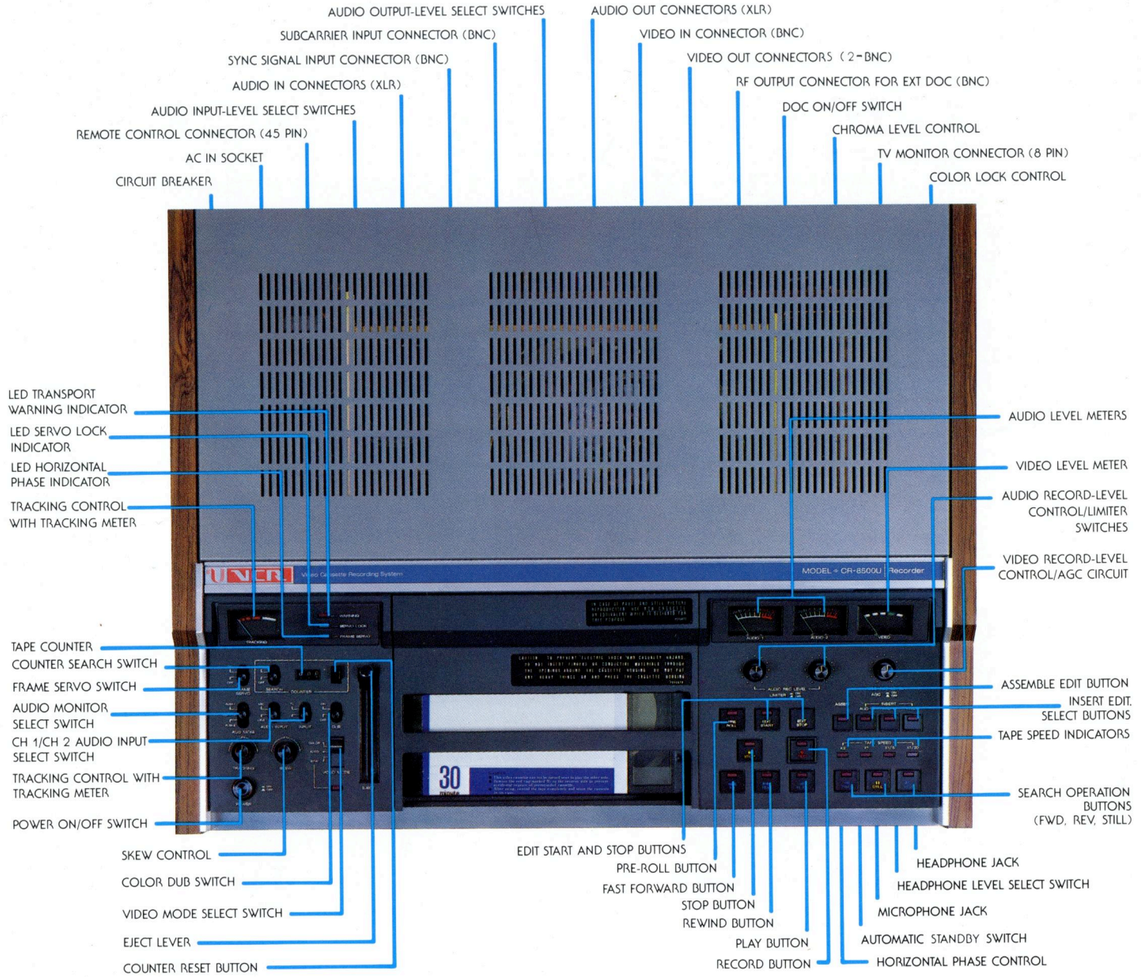
Broadcast-Standard Connections

The CR-8500LU is designed not only for compatible interface with its mate, the RM-85U, but with every other studio component. All audio connectors are XLR, all video connectors are BNC. For fast, positive connections, without the need to modify any equipment.



RM-85U

- All functions of the CR-8500LU
- LED readout of elapsed time and edit lap time
- Auto edit-in point/edit-out point
- Preview editing
- Edit-shift button for edit-point correction
- Tape safety guard circuit switches transport from still-frame mode to stop mode automatically after 10 minutes, preventing tape damage and video head damage
- Edit-in point search; after each edit, a return button rewinds the tape automatically to the edit-in point.
- Auto alarm system sounds if source tape has non-standard sync.



CR-8500LU

- Fully electronic editing with rotary erase heads and blanking switcher/frame servo
- Frame to frame editing utilizing the framing servo mechanism
- Capstan servo lock and DC-motor-driven head drum
- Insert, assemble and pre-roll edit capability
- Bi-directional Autospeed Search, for high and low speed search approximately (10 times, 2 times, 1 time, 1/5 time, 1/20 time)
- Editing accuracy within ±2 frames
- Horizontal sync phase compensation adjustment
- Built-in drop-out compensator switchable for external DOC and time Base Corrector
- Unique tape supply reel employing a planetary gear system allows for accurate editing and ease of tape handling
- Patented color dubbing circuitry for stable color quality with multi-generation dupes
- Solenoid-operated, self-illuminated control buttons, for smooth control and quick identification of operating mode
- Full-logic tape transport for rapid intermode switching without pressing the stop button
- Assemble editing and insert editing to control audio and video on channel 1 or 2 simultaneously or separately.
- Professional broadcast-type connectors for compatible interface with all equipment
- Remote control of all operations with RM-85U
- Audio record-level meters and manual audio-levels controls
- Automatic gain control circuit for video record-level control, plus manual control with meter
- Tracking control meter for maximum tracking adjustment
- Chroma level control can be controlled manually
- Servo-lock indicator to check tape-transport condition
- Built-in playback comb-filter, switchable for better signal-to-noise ratio
- Tape counter search system, for Auto-Search of particular section of the tape
- Solid construction, with detachable top, bottom and side panels for quick-access servicing
- Heavy fan motor for circulation

JVC's new breed of professional video is best represented by the CR-8500LU Electronic Editing Color Videocassette Recorder and RM-85U Automatic Editing Control Unit. A system that's synonymous with the state of the video art. One that delivers the high resolution video image demanded by professionals, whether in network ENG or sophisticated corporate A/V, where broadcast quality is just as essential. A system that offers the fastest, most accurate electronic editing.

But what really makes JVC video different is, that only JVC delivers the highest performance at a lower initial cost than all the rest. Even equipment that delivers significantly less may cost twice as much. What's more, with lower maintenance costs, JVC video offers higher long-range value.

Dollar per dollar, frame per frame, JVC's CR-8500LU System delivers more. A look at the design innovations and sophisticated features we've built into our CR-8500LU System, and you'll understand just how much more.

JVC's new breed of professional video. The only practical alternative when the highest performance is a must.

RM-85U

The RM-85U is designed for electronic remote control editing, in conjunction with two CR-8500LUs—one as a player, the other as the "editing" recorder. In addition to all functions of a CR-8500LU, the RM-85U features LED display in minutes, seconds, and frames.

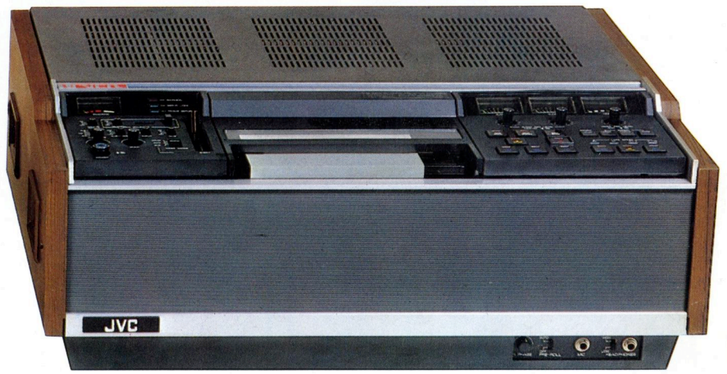
There's an independent LED display for player and recorder. Each gives digital readout of elapsed time, for precise indication of the length of tape that's passed. Press the lap-time button, and instant LED indication shows you the exact length of one edited cut.

It also provides edit-in/edit-out control, preview editing and edit-point correction. For the ultimate in editing flexibility and quality results.

Four built-in memories are used for edit-in/edit-out, player/recorder control. You simply determine your edit points, which are then stored in the memories. Then, you can rely on high-precision, automatic editing.

Memory control and an edit-shift button also facilitate frame-by-frame edit-point correction.

Preview control permits a rehearsal edit prior to the actual edit.



The System

The CR-8500LU/RM-85U System—it's the new generation in 3/4" video tape recording. For consistently excellent quality, from second generation edit to multi-generation dupe. Quality. Precision. Speed. Flexibility. Accuracy. The new breed of professional video. From JVC.

SPECIFICATIONS

CR-8500LU

GENERAL

Video recording system: Rotary two-head, helical scan system

Luminance: FM recording

Color Signal: Converted subcarrier direct recording

Video signal system: NTSC-type color signal (EIA standard)

Power requirement: 120 V AC 50 to 60 Hz

Power consumption: 180 Watts

Temperature:
Operating 41° to 104°F. (5° to 40°C)
Storage – 4° to 140°F. (–20° to 60°C)

Operating position: Horizontal only

Weight: 91 lbs. (41 kg)

Dimensions: 24-1/2" (W) x 9-7/8" (H) x 19-3/16" (D) (622mm x 250mm x 486mm)

Tape transport control: Fast forward, rewind, play, record and E-to-E, stop, search-fast forward, search-rewind, forward play, reverse play, still

Forward/reverse play speed:
High speed search—Approx. 10X
Slow speed search—2X, 1X, 1/5X, 1/20X
(Auto-speed shift)

Tape speed: 3-3/4 ips (95.3mm/s)

Fast forward time: Less than 5 min. for 60 min. tape

Rewind time: Less than 4.5 min. for 60 min. tape

Play/record time: Max. 60 min.

Wow & flutter: Less than 0.2% RMS

Accessories: AC cord, dust cover

EDIT CONTROL

Edit mode select: Assemble; insert (Audio-1, Audio-2, Video)

Edit control; Edit—start/stop; pre-roll; auto pre-roll; auto-off select

VIDEO SIGNALS

Input: 0.5 to 2.0 Vp-p, 75 ohms unbalanced
Outputs (2): 1 Vp-p, 75 ohms unbalanced

Horizontal resolution:
Monochrome—320 lines
Color—240 lines

Signal-to-noise ratio: More than 45 dB (Rohde & Schwarz noise meter)

External subcarrier input: 2 Vp-p, 75 ohms unbalanced

External subcarrier input: 4 Vp-p, 75 ohms unbalanced

External sync input: 4 Vp-p, 75 ohms unbalanced

RF signal output: 0.4 Vp-p, 75 ohms unbalanced (with internal DOC On/Off switch)

Recording level control: Auto/manual selectable (with level meter)

Tracking control: Manual (with tracking meter)

AUDIO SIGNALS

Input:
Line – 20/+4 dBm, 600 ohms balanced
Mic (Ch-1) – 70 dBm, 600 ohms balanced
TV (Ch-2) – 20 dB, 10 k ohms, unbalanced

Output:
Line (Ch-1/Ch-2) – –20/+4 dBm, 600 ohms balanced
Monitor +4 dBm, 600 ohms balanced
TV 0 dB, 2 k ohms unbalanced
Headphones –28/–37 dB (8-ohm load)

Monitor output select (TV/Monitor/Headphones): Ch-1/Mix/Ch-2

Signal-to-noise ratio: More than 48 dB (at 3% distortion level and limiter switched to off position)

Frequency response: 50 to 15,000 Hz

Recording level control:
Select switch—Audio Ch-1 limiter On/Off
Select switch—Audio Ch-2 limiter On/Off

CONNECTORS

Video input/outputs: BNC(3)

RF output/SC input/Sync input: BNC(3)

Audio input/output (Ch-1, Ch-2): XLR

Audio monitor output: XLR

Microphone: XLR

TV in-out: EIAJ 8-pin

Headphone: 1/4" (6mm) stereo headphone jack

AC in: 3-pin

Remote control: 45-pin

RM-85U

GENERAL

Power requirement: 120 V AC, 50/60 Hz

Power consumption: 13 Watts

Weight: 33 lbs. (15 kg)

Dimensions: 18-15/16" (W) x 9-1/16" (H) x 17-1/2" (D) (480mm x 230mm x 444mm)

Accessories: AC cord, 16 ft (5-m) remote cable

TAPE CONTROL

Player control; Fast forward, rewind, search-fast forward, search-rewind, playback, forward play reverse play, still, stop

Forward/reverse play speed:
High speed search—Approx. 10X
Slow speed search—2X, 1X, 1/5X, 1/20X
(Auto-speed shift, or off fixed speed)

Recorder control: Fast forward, rewind, search-fast forward, search-rewind, playback, forward play, reverse play, still, stop, record, and E-to-E check

Forward/reverse tape speed:
High speed search—Approx. 10X
Slow speed search—2X, 1X, 1/5X, 1/20X
(Auto-speed shift, or off fixed speed)

EDIT CONTROL

Edit mode select: Assemble; insert (Audio-1, Audio-2, Video)

Edit control: Pre-roll; edit—start/stop; return to edit-in point; preview; auto standby On/Off select

Edit-in point entry: Both player and recorder

Edit-out point entry: Either player or recorder

Edit-point shift: ±1 frame steps (both in and out)

Edit accuracy: ±2 frames

ELECTRONIC COUNTER AND MEMORY

Total time counter: Max. 99 min., 59 sec., 29 frames (both player and recorder)

Lap time counter: Max. ±99 min., 59 sec., 29 frames (both player and recorder)

Edit-in point: Max. 99 min., 59 sec., 29 frames (both player and recorder)

Edit-out point: Max. 99 min., 59 sec., 29 frames

Display select: Total/lap time

CONNECTORS

AC in: 3-pin

Remote control: 45-pin

Design and specifications subject to change without notice.

JVC Professional Video. The tough new breed.

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